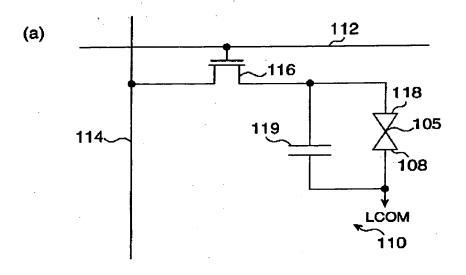


표 .



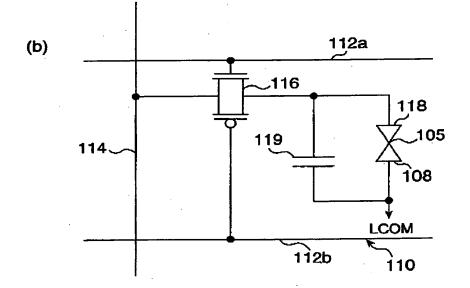
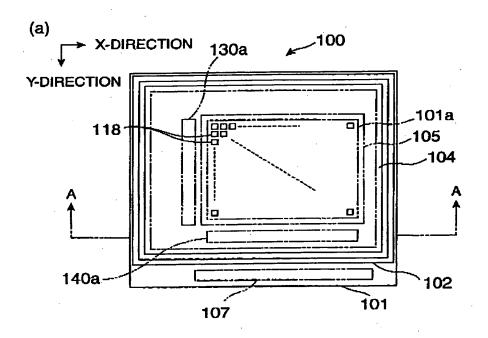


FIG. 2



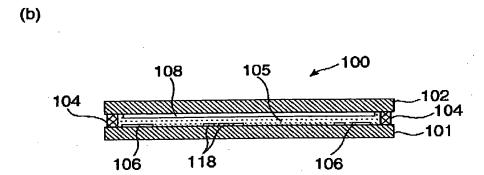


FIG. 3

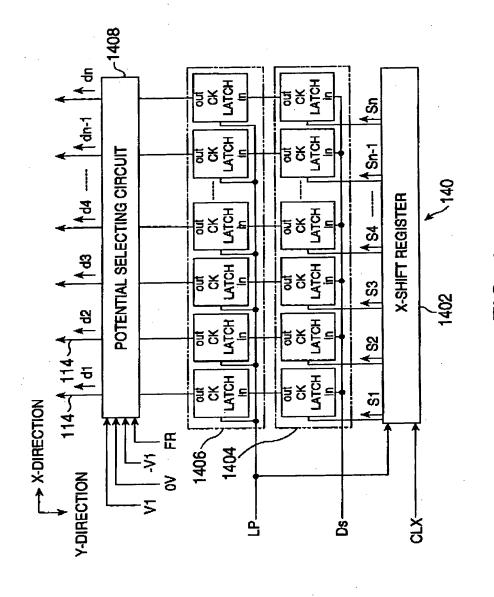


FIG. 4

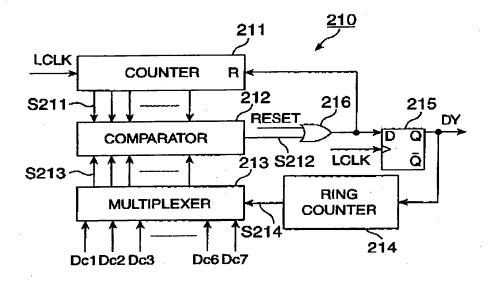


FIG. 5

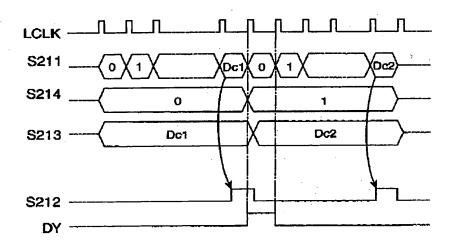


FIG. 6

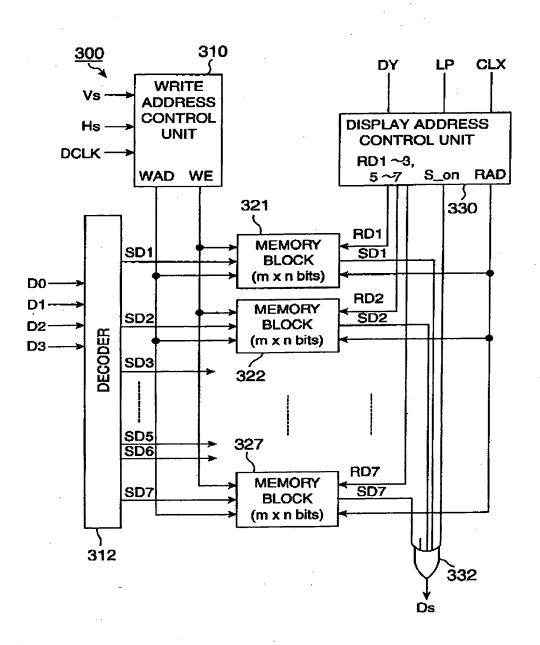


FIG. 7

TRUTH TABLE FOR DECODER IN DATA CONVERTING CIRCUIT (16 LEVELS 7sf)

	DATA	SD1	\$D2	SD3	SD5	SD6	\$D7
0	0000	0	0	0	0	0	0
1	0001	0	0	1	0	0	0
2	0010	0	1	1 -	0	0	0
3	0011	1	1	. 1	0	0	0
4	0100	0	0	0	1	0	0
5	0101	0	O	1	1	0	0
6	0110	0	1	1	1	0	0
7	0111	1	1	1	1	0	0
8	1000	0	0	0	1	1	0
9	1001	0	0	1	1	1	0
10	1010	0	1	1	1	1	0
11	1011	1	1	1	1	1	0
12	1100	0	0	0	1	1	1
13	1101	0	0	1	1	1	1
14	1110	0	1	1	1	1	. 1
15	1111	1	1	1	1	1	1

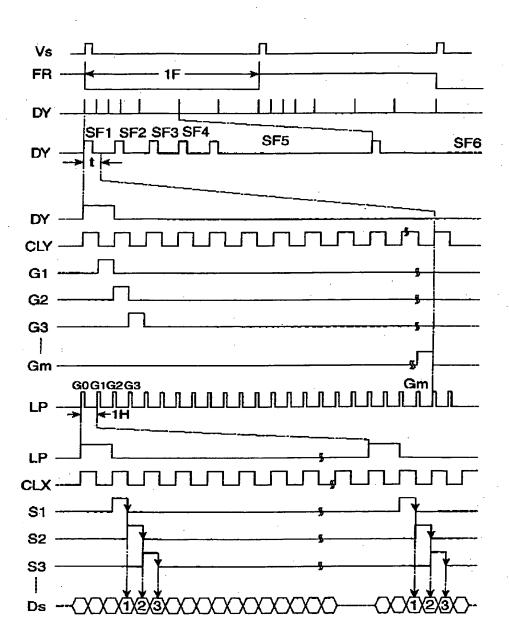


FIG. 9

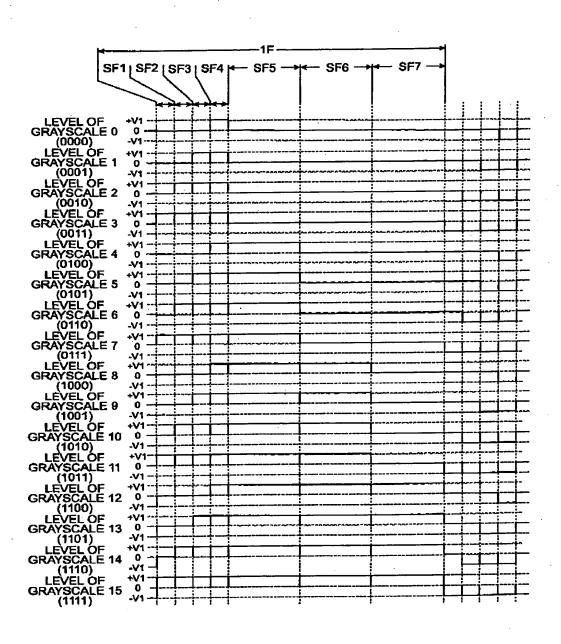


FIG. 10

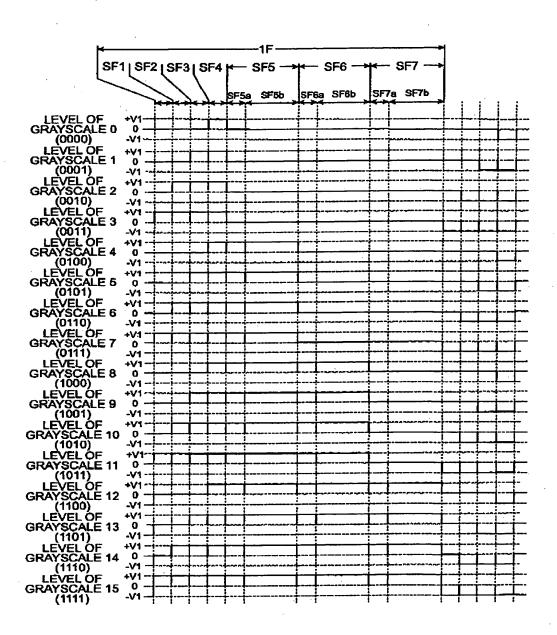


FIG. 11

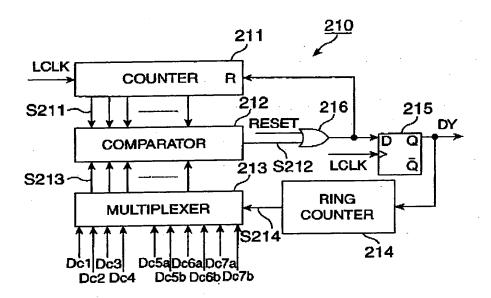
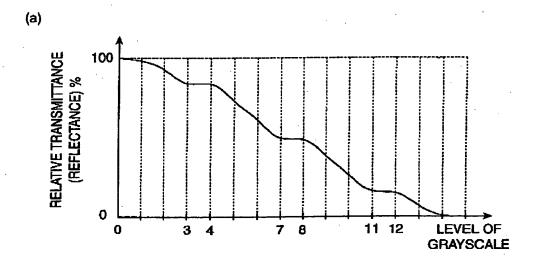


FIG. 12



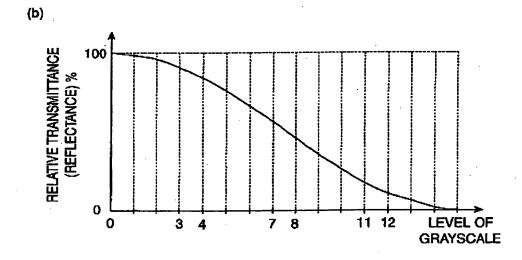


FIG. 13

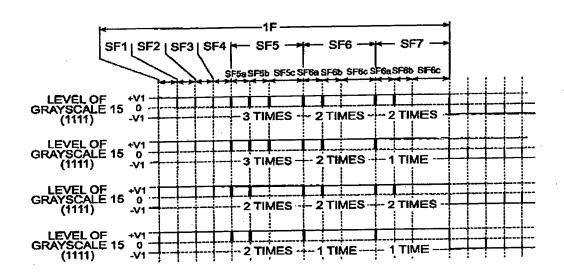


FIG. 14

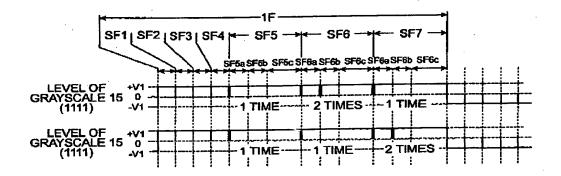


FIG. 15

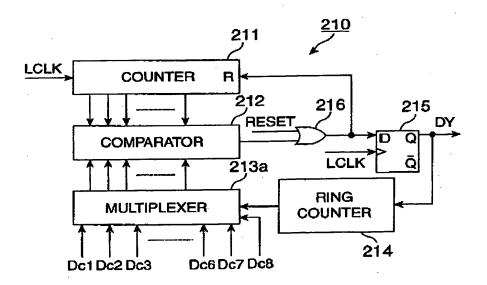


FIG. 16

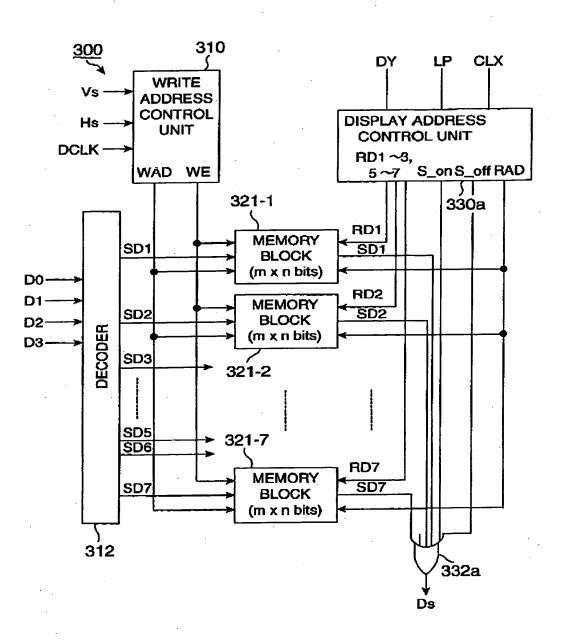


FIG.17

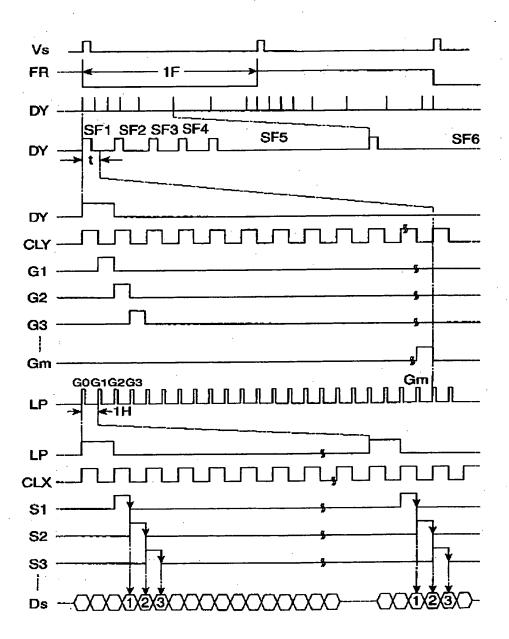


FIG. 18

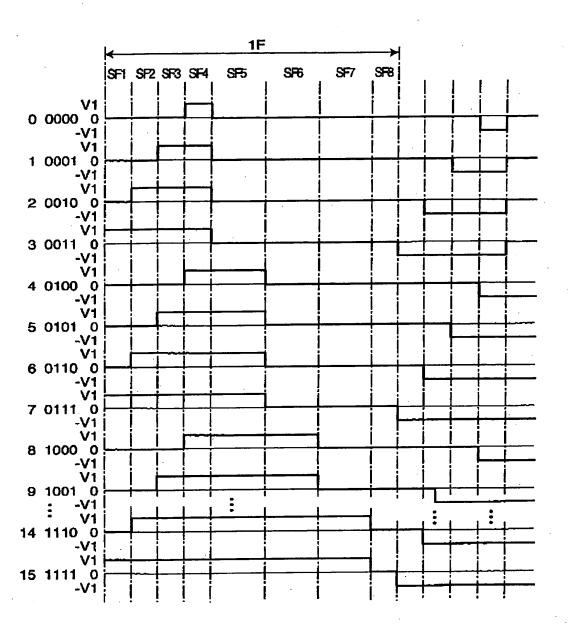


FIG. 19

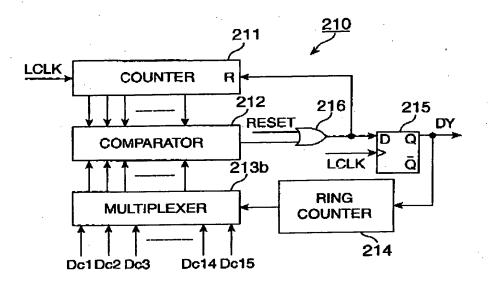


FIG. 20

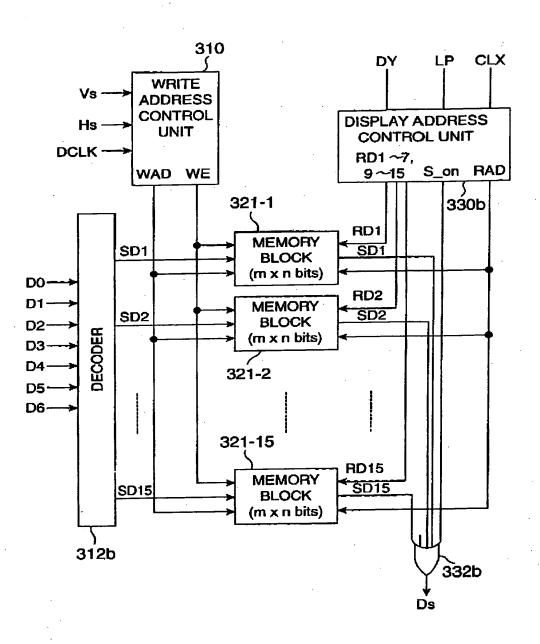


FIG. 21

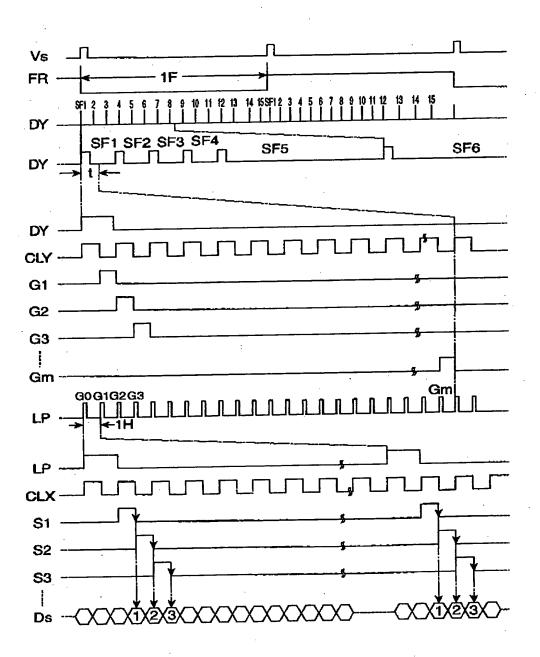


FIG. 22

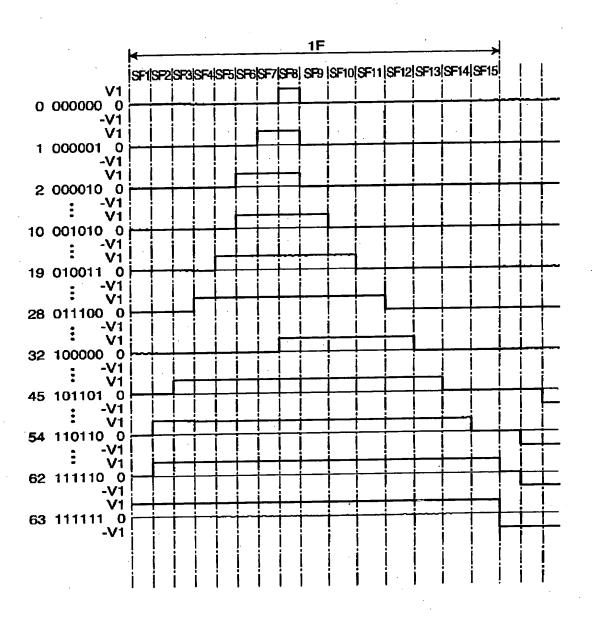


FIG. 23

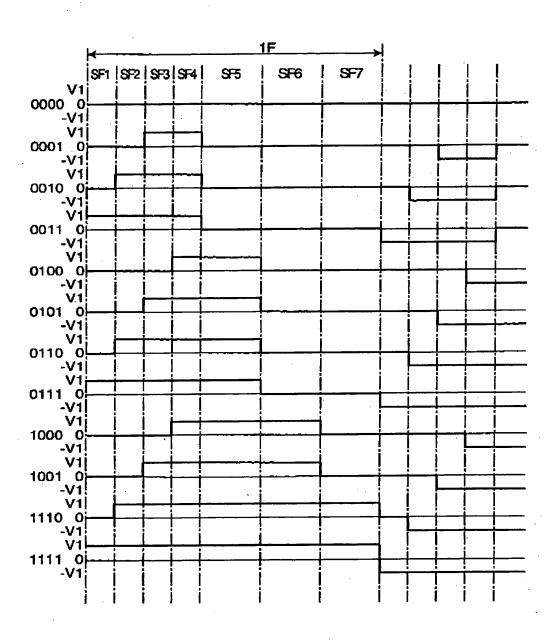


FIG. 24

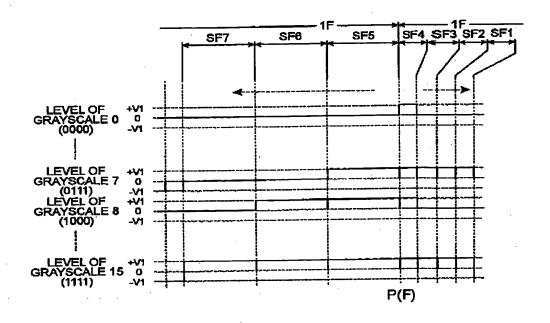


FIG. 25

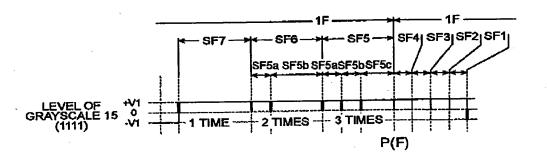


FIG. 26

BLOCK DIAGRAM OF DATA CONVERTING CIRCUIT FOR 64-LEVEL GRAYSCALE (3FRC)

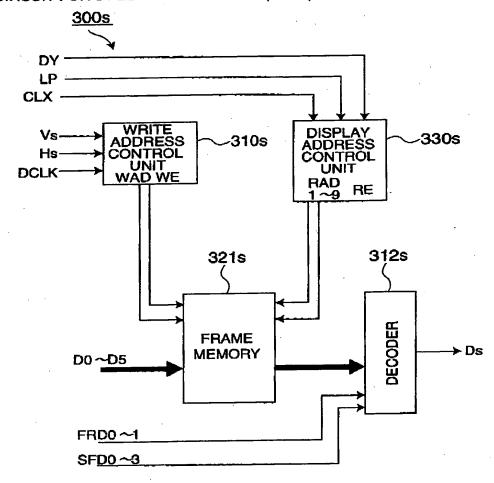


FIG. 27

DATA TRUTH TABLE FOR 64-LEVEL GRAYSCALE (3FRC)

GRAYSCALE				<u> </u>						T]
DATA	FRD	SF1	SF2	SF3	SF4	SF5	SF6	SF7	SF8	SF9	i
000000	00	0	0_	0	0_	0	1	0	0	0	FR1
000000	01	0	0_	0	0	0_	1	0	0	0	FR2
000000	10	0	0	0	0	0	1_	0	0	0	FR3
000001	_00	0	0	0	0	1	1	0	0	0	FR1
000001	01	0	0	O	0	0	1	0	0	0	FR2
000001	10	Q	0	0	0	0	1	0	0	0_	FR3
000010	00	_0	0	0	0	1	1_	0_	0	0_	FR1
000010	01	o	0	0	0	1	1	0_	0	0	FR2
000010	10	0	0	0	Q	0	1	0	0	Q	FR3
000011	00	0	0	0	0	_1_	_1_	0		0	FR1
000011	01	0	0	0	0	1	1	0	0	0	FR2
000011	10_	0	0	0	0	1	1	0	Ω	0	FR3
000100	00_	0	0	0	1	1	1	0	0	0	FR1
000100	01	0	0	0	0	_1_	_1_		0	0	FR2
000100	10	0	_Q	0	0	1	_1_	0	0	_0_	FR3
000101	00	Q	0	0	1	1	_1_	0	0	0	FR1
000101	01	0	0	Q	1	1_	1_	0	0	0	FR2
000101	10	0	0_	0	0	_1_	_1	0	0	0	FR3
111011	_00_	0	_1_	_1_	_1_	_1_	_1_	1	_1_	_1	FR1
111011	01	0	_1_	1	_1_	_1_	_1_	1	1	_1_	FR2
111011	10	. 0	0	1	1	_1_	_1_	_1	_1	_1_	FR3
111100	.00	0	_1_	1	1	_1_	1	_1_	1	_1_	FR1
111100	01	0	_1_	1	_1_	_1_	_1	_1	_1	_1_	FR2
111100	10	0	1	_1_	_1_	1	_1_	_1_	_1_	_1_	FR3
111101	00	1	_1_	1	1	_1_	_1_	1	_1_	_1_	FR1
111101	01	0	1	_1_	1	_1_	1	1	_1_	_1_	FR2
111101	10	0	_1_	1	1	1	_1_	_1_	1	_1_	FR3
111110	00	_1_	1	_1_	_1_	_1_	_1_	_1_;	_1_	_1_	FR1.
111110	01	_1_	1	1	1	_1_	_1_	1	1	_1_	FR2
111110	10	0	1	_1_	1	_1_	_1_	1	1	_1_	FR3
111111	00	1	1	1	1	1	_1_	_1_	1	1_	FR1
111111	01	1	_1_	1	1	1	1	_1_	_1_	_1_	FR2
111111	10	1	1	1	1	1	1	1	1	1	FR3
		-							•••		

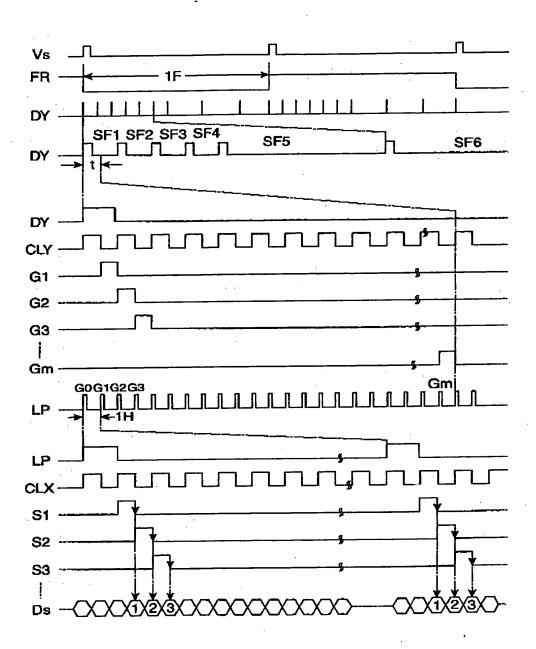


FIG. 29

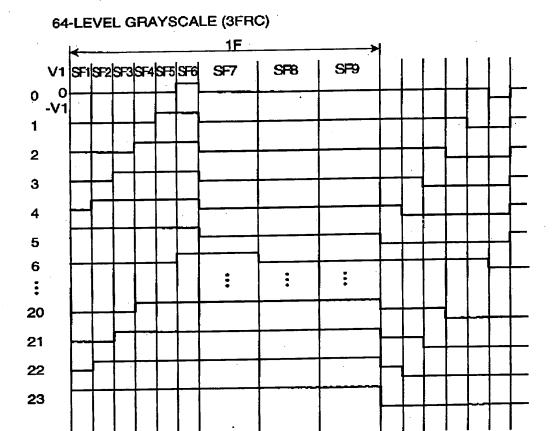


FIG. 30

64-LEVEL GRAYSCALE (3FRC)

DATA	FR1	FR2	FR3
000000	0	0	0
000001	1	0	0
000010	1	1	0
000011	1	1	1
000100	2	1	1
000101	2	2	1
000110	2	2	2
000111	3	2	2
010000	6	6	6
010001	7	6	6
010010	7	7	6
010011	7	7	7
100000	12	12	12
100001	13	12	12
100010	13	13	12
100011	13	13	13
111100	22	22	22
111101	23	22	22
111110	23	23	22
111111	23	23	23

BLOCK DIAGRAM OF DATA CONVERTING CIRCUIT FOR 64-LEVEL GRAYSCALE (2FRC)

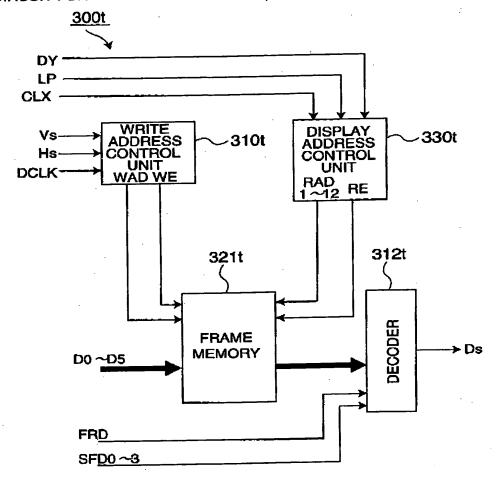


FIG. 32

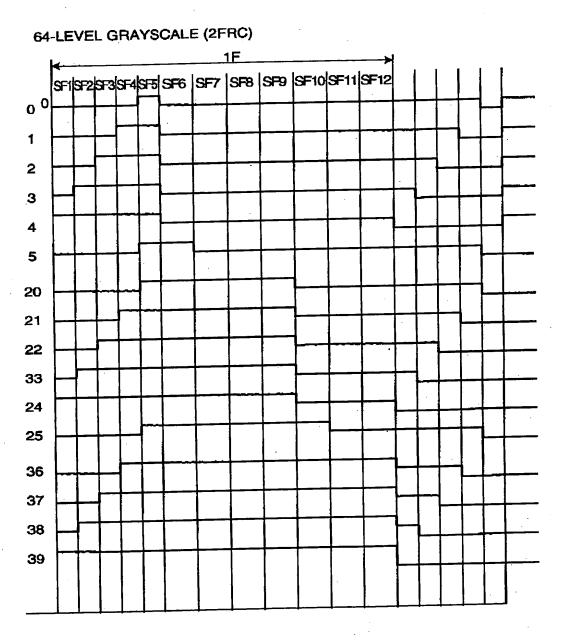


FIG. 33

64-LEVEL GRAYSCALE (2FRC)

DATA	FR1	FR2
000000	1	0
000001	1	1
000010	2	1
000011	2	2
000100	3 .	2
000101	3	3
000110	4	3
000111	4	4
001000	6	5
001001	6	6
010000	11	10
010001	11	11
010010	12	11
010011	12	12
100000	21	20
100001	21	21
100010	22	21
100011	22	22
111100	38	37
111101	38	38
111110	39	38
111111	39	39

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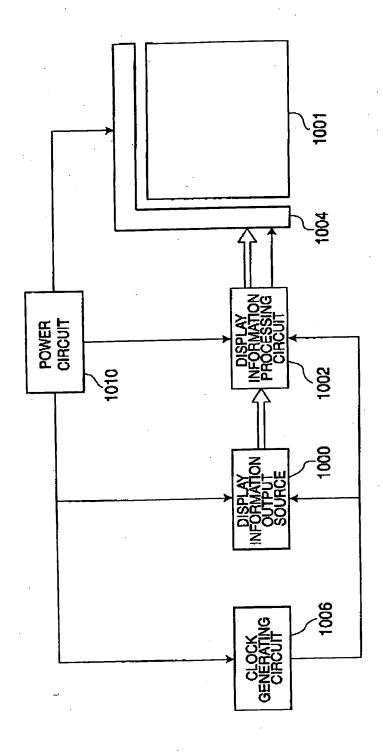


FIG. 35

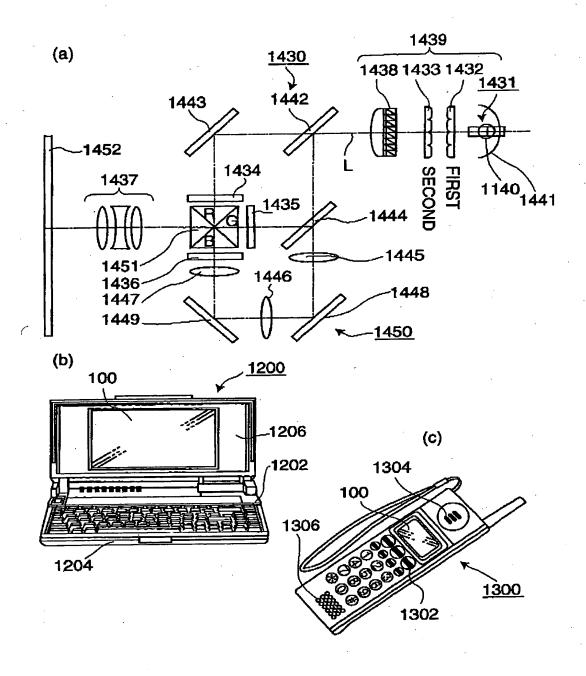


FIG. 36